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10/621,450	07/18/2003	Tsutomu Ohishi	240490US2	1117
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			TRUONG, LECHI	
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			2194	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/621,450 OHISHI ET AL. Office Action Summary Examiner Art Unit LECHI TRUONG 2194 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 18 December 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4.6-15.19-26 and 30-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-4, 6-15, 19-22, 23-26, and 30-34 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. /William Thomson/ SPF 2100 Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsparson's Catent Drawing Review (CTO-943)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 6/14/04.04/30/04.11/04/03.

Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Claims 1-4, 6-15, 19-22, 23-26, and 30-34 are presented for the examination. Claims 7,

18, 29 are canceled. Claims 5-6, 16-17, 27-28 are canceled.

2. This application contains claims 5-6, 16-17, 27-28 drawn to an invention nonelected

with traverse in Paper No. 1. A complete reply to the final rejection must include cancellation of

nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

 Claims 1-11, 23-33 are rejected under 35 U.S.C. 101 because they are directed to nonstatutory subject matter.

3. Claims 1-11, 23-33 are non-statutory because they are software per se.

Claims 1, 23 define "An image forming apparatus" in the preamble and the body of the

claims recites "a wrapping part", "function called" and "virtual application service". A

wrapping part, function calls and virtual application services all appear to be software modules.

Therefore, claims 1, 23 are non-statutory because they recite claims that cover only a software

embodiment which at best covers an apparatus that is a collection of software.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1, 12, 23, 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (US 7,047535 B2) in view of Pace et al (US. Patent 7,181731 B2) and further in view of Coveley et al (US. 6,873620B1).

As to claim 1, Lee teaches the invention substantially as claimed including: an application (client application, col 2, ln 8-11), a function call (application programming interface, col 2, ln 7-10), an control service (workflow engine, col 2, ln 10-16/server, col 2, ln 60-65), an application for performing processes on image formation and an control service for performing system side processes according to a function call from the application (col 2, ln 10-16), a wrapping part (a Java native Interface wrapper, col 2, ln 10-15), the convert function (native code, col 2, ln 10-16), a wrapping part for converting a function called by the application, and performing a function call to the control service by using the converted function(col 2, ln 10-16).

Lee does not explicitly teach image. However, Pace teaches image (to move the SC asset from the HTTP server to the HTTP client. These boundaries may define an asset as a SC asset.

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According to one embodiment of the present invention, an SC asset may include, for example, an HTML file for a Web page, an image (e.g., a JPEG image), a movie, an animation, and/or an audio file (e.g., an MP3 file), col 37, ln 3-9).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Lee with Pace to incorporate the feature of image because this allows an different applications can be transformed and/or executed on various tires of the network.

Lee and Pace do not teach a virtual application service that is configured to operate as a client process for the service and to operate as a server process for the application, wherein the wrapping part is included in the virtual application service. However, Coveley teaches a virtual application service that is configured to operate as a client process for the service and to operate as a server process for the application, wherein the wrapping part is included in the virtual application service (the communication server includes virtual devices communicating with the communication networks and virtual gateway bridging the virtual networks. The virtual gateway accesses the knowledge base and converts protocols of the messages. Preferably, the virtual gateway includes a preprocessor, a processor and a postprocessor. The preprocessor examines each incoming message to locate target logical connection information determining the target destination for the incoming message. The processor converts the protocol of each incoming message, where appropriate, based on the target logical connection information. The postprocessor wraps each message received from the processor with headers, where appropriate, col 1, ln 59-67/ Fig. 8/ the virtual gateway 284 is better illustrated. Virtual gateway 284 includes a preprocessor 300 receiving input from a virtual device VD (either the virtual host 280 or the

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virtual terminal 282) that receives logical messages from a sending physical device 14. The preprocessor 300 communicates with the knowledge base 286 and with a processor 302. Processor 302 also communicates with the knowledge base 286 as well as with a postprocessor 304. The postprocessor 304 communicates with the knowledge base 286 and provides output to a virtual device VD (either the virtual host 280 or the virtual terminal 282). The virtual device VD in turn sends a logical message to a receiving physical device 14, col 7, In 41-55).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Lee and Pace with Coveley to incorporate the feature of a virtual application service that is configured to operate as a client process for the service and to operate as a server process for the application, wherein the wrapping part is included in the virtual application service because this provides a novel communication server to enhance communications connectivity in wireless and/or land-line networks and to provide a novel communication system incorporating the same.

As to claims 12, 23, 34, they are apparatus claim 1; therefore, they are rejected for the same reason as claim 1 above.

5. Claims 2, 3, 13, 14, 24, 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (US 7,047535 B2) in view of Pace et al (US. Patent 7,181731 B2) in view of Coveley et al (US. 6,873620B1), as applied to claim 1 above, and further in view of Lam et al (US. Patent 5,926,636).

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As to claim 2, Lee, Pace and Coveley do not teach there is a version difference between the function used by the application for the control service and a corresponding function in the control service. However, Lam teaches there is a version difference between the function used by the application for the control service and a corresponding function in the control service (If comparison of the version of the application programming interface in the message buffer with a version of an application programming interface on the second computer ... if the version are incompatible, col 5, ln 26-33).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Lee, Pace and Coveley with Lam to incorporate the feature of a version difference between the function used by the application for the control service and a corresponding function in the control service because this supports different versions of application programming interfaces by remote procedure call modules on client and servers computers.

As to claim 3, Lam teaches wherein the wrapping part determines whether there is the version difference by referring to information indicating that a version of the corresponding function in the control service has been changed (col 4, ln 22-27/ col 6, ln 12-20/ col 7, ln 25-31/ col 11, ln 13-20).

As to claims 13, 14, 24, 25, they are apparatus claims 2, 3; therefore, they are rejected for the same reasons as claims 2, 3 above.

 Claims 4, 15, 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (US 7,047535 B2) in view of Pace et al (US. Patent 7,181731 B2), in view of Coveley et al (US.

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6,873620B1), as applied to claim 1 above, and further in view of Nakamura et al (US. Patent 5,987529).

As to claim 4, Lee, Pace and Coveley do not teach converts the function by adding at least a dummy function or at least an argument if the number of functions or the number of arguments is different between the function used in the application for the control service and the corresponding function in the control service. However, Nakamura teaches converts the function by adding at least a dummy function or at least an argument if the number of functions or the number of arguments is different between the function used in the application for the control service and the corresponding function in the control service (it is determined whether the code which is the argument of the selector mismatch handler selectorMismatchHandler is equal to newcode (step 260). If the code and newcode are different the code which is the argument of the vmicall instruction is replaced with newcode (step 270). In the previous example, the code was 1. If the newcode assigned in step 240 is 3, vmicall (26,1) is rewritten to vmicall (26,3), col 9, and In 12-20).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Lee, Pace and Coveley with Nakamura to incorporate the feature of adding at least a dummy function or at least an argument if the number of functions or the number of arguments is different between the function because this allows the collective recovery processing of inconsistencies can be avoided, the method invoking can be speeded up and memory efficiency can be increased.

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As to claims 15, 26, they are apparatus claim 4; therefore, it is rejected for the same reason as claim 4 above.

7. Claims 8, 9, 10, 11, 19-22, 30-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (US 7,047535 B2) in view of Pace et al (US. Patent 7,181731 B2), in view of Coveley et al (US. 6,873620B1), as applied to claim 1 above, and further in view of Hamilton et al (US 2003/0177283 A1).

As to claim 8, Lee, Pace, Coveley do not teach a version check part for determining whether a version of a set of functions used by the application is within a predetermined range that the application service can support. However, Hamilton teaches a version check part for determining whether a version of a set of functions used by the application is within a predetermined range that the application service can support (A server examines the requested version number and compares it against the versions it supports. If the requested version is the range of version supported by the server supported by the server, the acceptance of the version is indicated in a subsequent SessOpenConf message, para [0121], In 4-10).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Lee, Pace, Coveley with Hamilton to incorporate the feature of a version check part for determining whether a version of a set of functions used by the application is within a predetermined range that the application service can support because this allows an application to monitor a status of other applications connected to the control process of the MSSP.

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As to claim 9, Hamilton teaches the version check part obtains the version of the set of the functions from the application, and determines whether the version is within the predetermined range by referring to information including the predetermined range (para [0121], In 4-10/ para [1029], In 1-10).

As to claim 10, Hamilton teaches a version check part for determining, function by function, whether a version of a function used by the application for the virtual application service is within a predetermined range that the virtual application service can support (para [0121], In 4-10).

As to claim 11, Hamiltion teaches the version check part obtains the version of the function from the application, and determines whether the version is within the predetermined range by referring to information including the predetermined range (para [0121], ln 4-10).

As to claims 19, 20, 21, 22, 30-33, they are apparatus claims 8, 9; therefore, they are rejected for the same reasons as claims 8, 9 above.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to LeChi Truong whose telephone number is (571) 272 3767. The

examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomson, William can be reached on (571) 272 3718. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

LeChi Truong

March 15, 2008

/Thomson D. William/

Supervisory Patent Examiner, Art Unit 2194